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(54) **DISPLAY CONTAINER WITH AN ELASTIC BAND**

(57) Display container with an elastic band, easy to form, in which products are stacked horizontally, formed by a quadrangular cardboard sheet with a first side from which emerges a first tab, in parallel and sequentially arranged are second, third, fourth and fifth sides, which correspond to folding lines, on each side of the sheet are arranged fifth and sixth folding lines, a breakline is ar-

ranged along the sheet and parallel to the sixth side, guide orifices are made for the elastic band such that when the container is formed the first tab coincides with the fifth side such that when the breakable upper portion is separated by the breakline the elastic band will exert a constant traction force pulling the products towards the anterior face of the container.

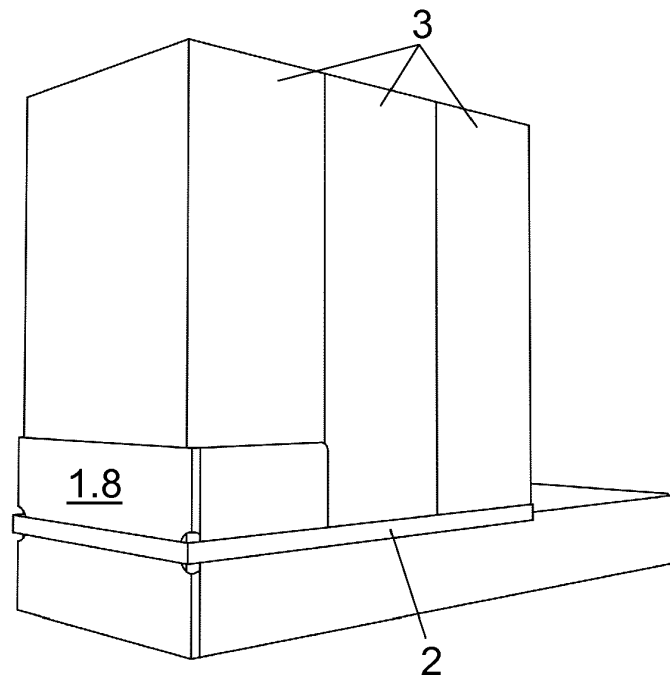


Fig.6

Description

TECHNICAL FIELD OF THE INVENTION

[0001] The present invention belongs to the field of display containers for products including elastic means, such as elastic bands, to bring the products towards a part of the container where they can be displayed.

BACKGROUND OF THE INVENTION

[0002] Containers are known for products where said products are constantly pushed towards an opening of the container, where the products are displayed, by elastic means, normally an elastic band, such that when a product is removed the elastic means make the remaining products be displayed always in the same way to the consumers, as near as possible for extraction and/or as visually and commercially as possible.

[0003] Patent US2801000 discloses a display container for laminar products stacked vertically and displayed through an upper anterior opening by the traction exerted by an elastic band. The opening in which the products are displayed is small, in accordance with the laminar products, and a semicontainer within another semicontainer is required, resulting in a product that is aesthetically displeasing and expensive to manufacture.

[0004] Patent WO2014006398 discloses a display container for horizontally stacked products where, before forming the container, on the sheet, an elastic band is attached such that the container is formed with the products inside it and as it is formed the products are pulled by the elastic band, such that the container is complicated to assemble and if the elastic band fails the container must be discarded or unfolded to restore the sheet, remove the products, change the elastic band and repeat the forming process.

[0005] The present invention solves the drawbacks of the prior art by the design of a display case with an elastic band.

DESCRIPTION OF THE INVENTION

[0006] The present invention is established and characterised in the independent claims, while the dependent claims describe additional characteristics thereof.

[0007] The invention relates to a display container with an elastic band that is easy to form and allows using existing formats with minimal modifications. The technical problem addressed is configuring the shape, cuts and folding lines of the container and arranging the elastic band to obtain the aforementioned goal.

[0008] The term 'display case' refers to a container holding products which can display said products to consumers.

[0009] An advantage resulting from the container according to claim 1 is that it is easy to form, simply by folding a sheet and placing an elastic band on the outside,

allowing to use currently existing formats with minor changes thereby avoiding large investments in new dies.

[0010] Another advantage resulting from claim 1 is that the products are not pulled at all times, only when the breakable upper portion is removed, which is generally when the products are displayed, such that they cannot be damaged if the elastic band is squashed.

[0011] Another advantage resulting from claim 1 is that the same container provides a display case in a simple manner and can be placed directly on the shelf of a store without having to transfer the products to a different container or install an intermediate container between the container described herein and the shelf of the store.

[0012] Another advantage resulting from claim 2 is that, at the area where the elastic band pulls on the products, said elastic band is level with the container and provides aesthetic continuity with the same, resulting in a smooth design.

[0013] Another advantage resulting from claims 3 and 4 is that the conversion into a display case is performed in a simple manner.

[0014] Another advantage resulting from claim 5 is that the container can be quite sturdy and suitable for large and/or relatively heavy products.

BRIEF DESCRIPTION OF THE DRAWINGS

[0015] This specification is supplemented with a set of drawings illustrating the preferred embodiment, which are never intended to limit the invention.

Figure 1 is a plan view of the sheet showing a dotted breakable region.

Figure 2 is a perspective view of the container about to be formed without being closed by the tabs.

Figure 3 shows the container of figure 2 formed completely and upright, with the elastic band ready to be fitted.

Figure 4 shows the container of figure 3 in which the elastic band has been fitted.

Figure 5 shows the container of figure 4 in which the upper breakable portion has been removed, exposing the products.

Figure 6 shows the container of figure 5 where two products have been removed and the elastic band pulls the remaining products towards the anterior part of the container.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT OF THE INVENTION

[0016] An embodiment of the invention is described below with reference to the figures.

[0017] Figures 5 and 6 show a display container (1) containing products (3) stacked horizontally that comprises an elastic band (2) for bringing said products (3) towards the anterior part thereof.

[0018] Said display container (1) is formed by a quadrangular cardboard sheet (1.1), figure 1, that comprises a first side (1.2) that corresponds to a first folding line, from where a first tab (1.3) emerges, and in parallel and in sequence are arranged the second (1.4), third (1.5) and fourth (1.6) sides, which respectively correspond to the second, third and fourth folding lines, and parallel to the fourth side (1.6) and following the sequence is disposed a fifth side (1.7) as the end of the sheet (1.1).

[0019] On each side of the sheet (1.1) and perpendicular to the sides (1.2, 1.4, 1.5, 1.6, 1.7) are arranged fifth (1.12) and sixth (1.17) folding lines, which respectively correspond to sixth and seventh sides.

[0020] From the fifth (1.12) and sixth (1.17) folding lines and towards the closest end of the sheet (1.1), as shown in figure 1 and according to its orientation, it can be said that to the right of the fifth folding line (1.12) and to the left of the sixth folding line (1.17) in correspondence with the second (1.4), third (1.5) and fourth (1.6) sides are made the corresponding first (1.22), second (1.23), third (1.24), fourth (1.25), fifth (1.26) and sixth (1.27) notches, thereby configuring the following faces: anterior face (1.8) between the first (1.2), second (1.4), sixth (1.12) and seventh (1.17) sides; right side (1.9) between the second (1.4), third (1.5), sixth (1.12) and seventh (1.17) sides; rear face (1.10) between the third (1.5), fourth (1.6), sixth (1.12) and seventh (1.17) sides; left side (1.11) between the fourth (1.6), fifth (1.7), sixth (1.12) and seventh (1.17) sides; in addition, the following tabs are configured as follows: second tab (1.13) between the sixth side (1.12) and first notch (1.22); third tab (1.14) between the sixth side (1.12), first (1.22) and second notches (1.23); fourth tab (1.15) between the sixth side (1.12), second (1.23) and third (1.24) notches; fifth tab (1.16) between the third notch (1.24) and the fifth (1.7) and sixth (1.12) sides; sixth tab (1.18) between the seventh side (1.17) and the fourth notch (1.25); seventh tab (1.19) between the seventh side (1.17), fourth (1.25) and fifth (1.26) notches; eighth tab (1.20) between the seventh side (1.17) and fifth (1.26) and sixth (1.27) notches; ninth tab (1.21) between the sixth notch (1.27) and the fifth (1.7) and seventh (1.17) sides.

[0021] A breakline (1.29) is provided along the sheet (1.1) parallel to the sixth side (1.12), in each of the first (1.2) and second (1.4) sides a guide orifice (1.28) is made for the elastic band (2) between the sixth side (1.12) and the breakline (1.29), in each of the third (1.5) and fourth (1.6) sides a guide orifice (1.28) is made for the elastic band (2) at the intersection of each of said sides (1.5, 1.6) with the breakline (1.29), such that when forming the container (1) the first tab (1.3) coincides with the fifth side (1.7) and when the breakable upper portion is separated, such that when the breakable upper portion, dotted region in figure 1, along the breakline (1.29), figures 5 and

6, the elastic band (2) exerts a constant traction force on the products (3) towards the anterior face (1.8) of the container (1).

[0022] One option as shown in the figures is that the breakline (1.29) consists of two parallel segments, the first segment closer to the seventh side (1.17) and running along the first tab (1.3), front face (1.8), one segment of the right side face (1.9) and one segment of the left side face (1.11).

[0023] In another option the breakline (1.29) has at least one opening (1.30) to facilitate the breaking, specifically the figure show three simply to provide access from any face of the container (1), the front face (1.8) being advantageous due to its ease of access.

[0024] In another option the cardboard is corrugated cardboard.

Claims

1. Display container (1) in which horizontally stacked products (3) are arranged comprising an elastic band for bringing said products (3) towards the anterior part thereof, formed by a quadrangular cardboard sheet (1.1) with a first side (1.2) that corresponds to a first folding line, from where a first tab (1.3) emerges, and in parallel and in sequence are arranged the second (1.4), third (1.5) and fourth (1.6) sides, which respectively correspond to the second, third and fourth folding lines, and parallel to the fourth side (1.6) and following the sequence is disposed a fifth side (1.7) as the end of the sheet (1.1), on each side of which and perpendicular to the sides (1.2, 1.4, 1.5, 1.6, 1.7) are arranged fifth (1.12) and sixth (1.17) folding lines, which respectively correspond to sixth and seventh sides, **characterised in that** from the fifth (1.12) and sixth (1.17) folding lines and towards the closest end of the sheet (1.1) in correspondence with the second (1.4), third (1.5) and fourth (1.6) sides are made the corresponding first (1.22), second (1.23), third (1.24), fourth (1.25), fifth (1.26) and sixth (1.27) notches, thereby configuring the following faces: anterior face (1.8) between the first (1.2), second (1.4), sixth (1.12) and seventh (1.17) sides; right side (1.9) between the second (1.4), third (1.5), sixth (1.12) and seventh (1.17) sides; rear face (1.10) between the third (1.5), fourth (1.6), sixth (1.12) and seventh (1.17) sides; left side (1.11) between the fourth (1.6), fifth (1.7), sixth (1.12) and seventh (1.17) sides; in this way the following tabs are configured as follows: second tab (1.13) between the sixth side (1.12) and first notch (1.22); third tab (1.14) between the sixth side (1.12), first (1.22) and second notches (1.23); fourth tab (1.15) between the sixth side (1.12), second (1.23) and third (1.24) notches; fifth tab (1.16) between the third notch (1.24) and the fifth (1.7) and sixth (1.12) sides; sixth tab (1.18) between the seventh side (1.17) and

the fourth notch (1.25); seventh tab (1.19) between the seventh side (1.17), fourth (1.25) and fifth (1.26) notches; eighth tab (1.20) between the seventh side (1.17) and fifth (1.26) and sixth (1.27) notches; ninth tab (1.21) between the sixth notch (1.27) and the fifth (1.7) and seventh (1.17) sides; a breakline (1.29) is provided along the sheet (1.1) parallel to the sixth side (1.12), in each of the first (1.2) and second (1.4) sides a guide orifice (1.28) is made for the elastic band (2) between the sixth side (1.12) and the breakline (1.29), in each of the third (1.5) and fourth (1.6) sides a guide orifice (1.28) is made for the elastic band (2) at the intersection of each of said sides (1.5, 1.6) with the breakline (1.29), such that when forming the container (1) the first tab (1.3) coincides with the fifth side (1.7) such that when the breakable upper portion is separated along the breakline (1.29), the elastic band (2) exerts a constant traction force on the products (3) towards the anterior face (1.8) of the container (1).

2. Display container according to claim 1 wherein the breakline (1.29) consists of two parallel segments, the first segment closer to the seventh side (1.17) and running along the first tab (1.3), front face (1.8), one segment of the right side face (1.9) and one segment of the left side face (1.11).
3. Display container according to any of the preceding claims wherein at least one opening (1.30) is made in the breakline (1.29) to facilitate the breaking.
4. Display container according to claim 3 wherein an opening (1.30) is provided in the segment of the breakline (1.29) in the front face (1.8).
5. Display container according to any of the preceding claims where the cardboard is corrugated cardboard.

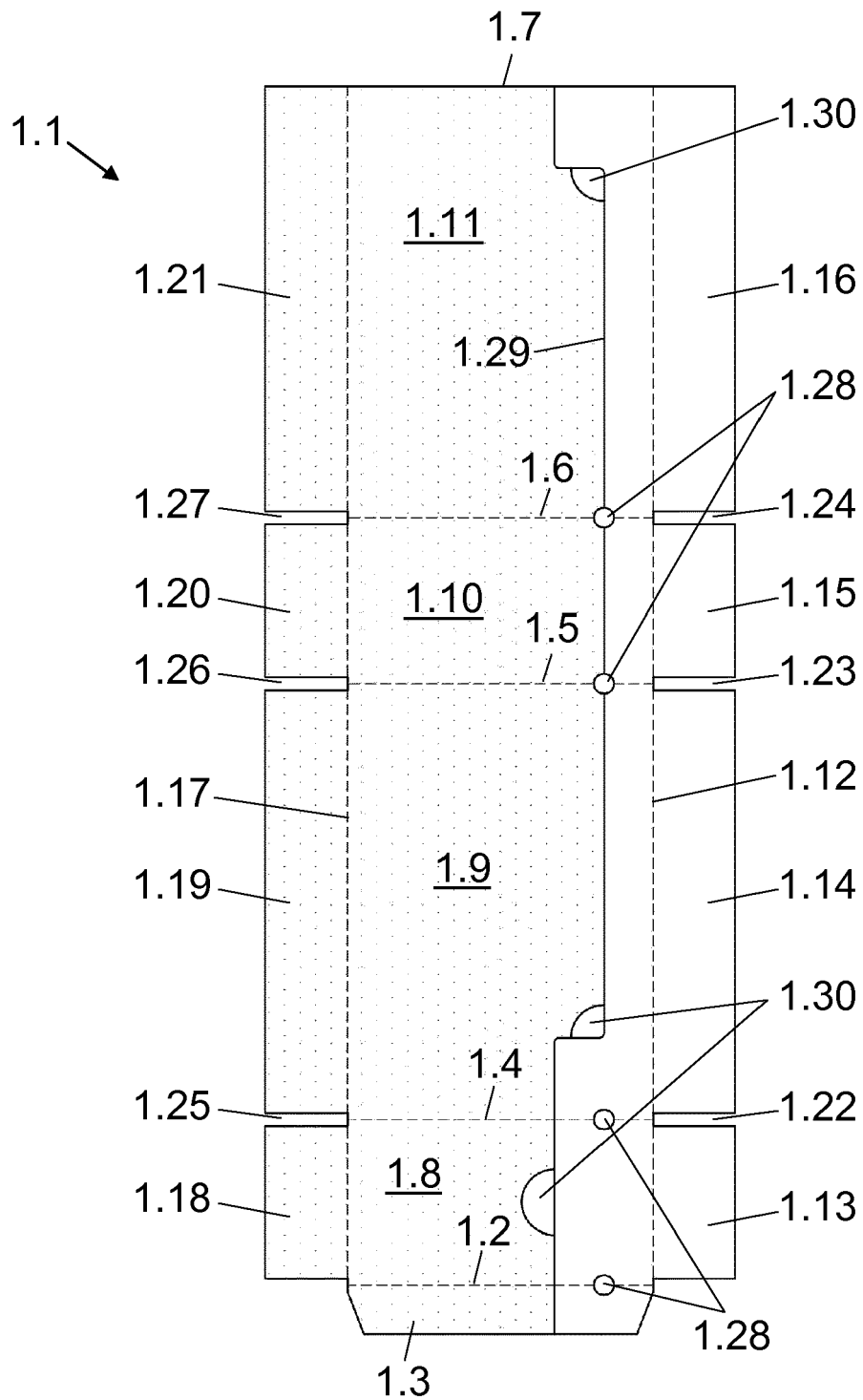


Fig.1

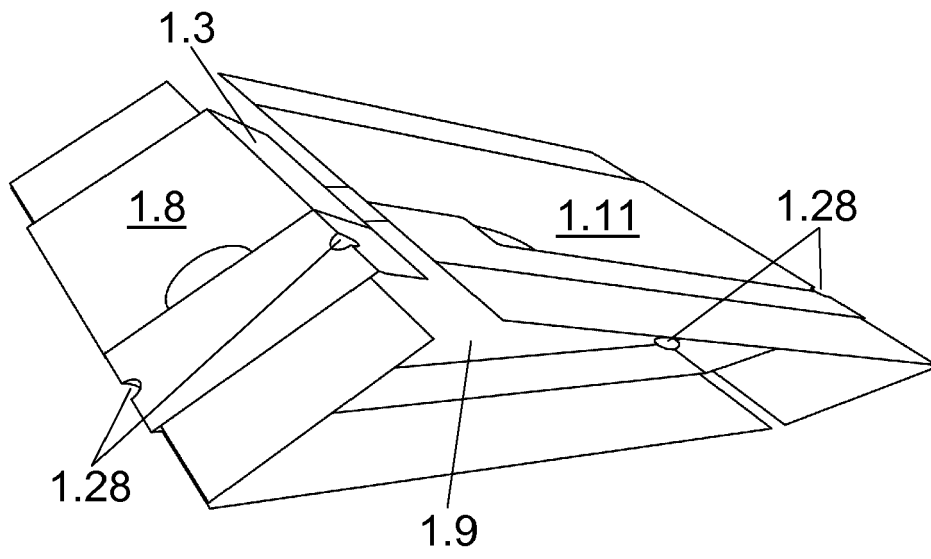


Fig.2

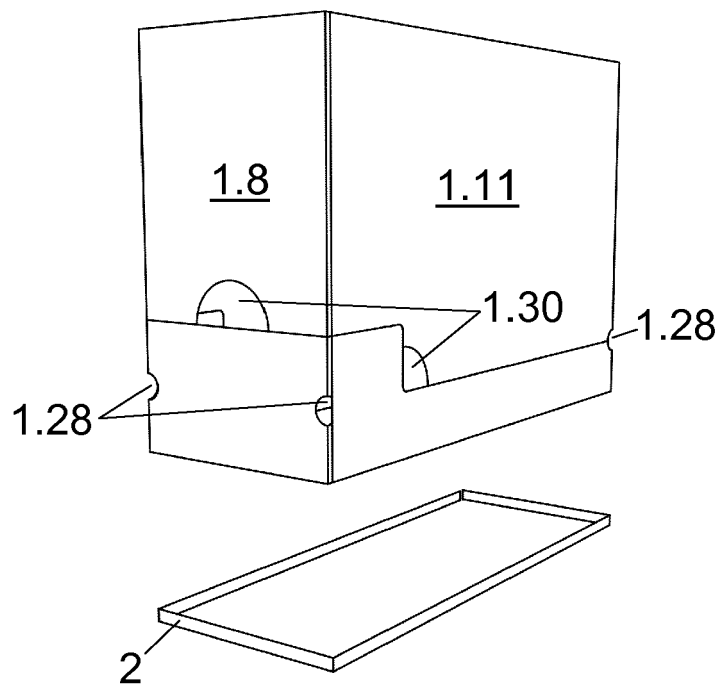


Fig.3

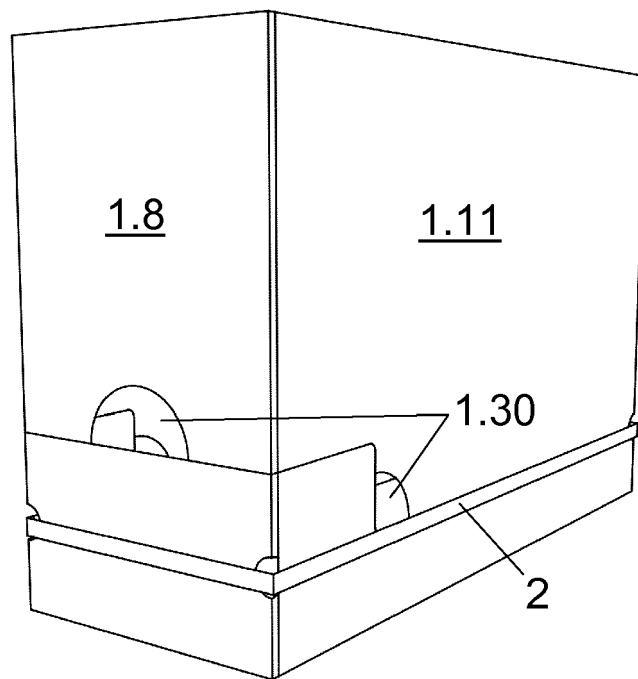


Fig.4

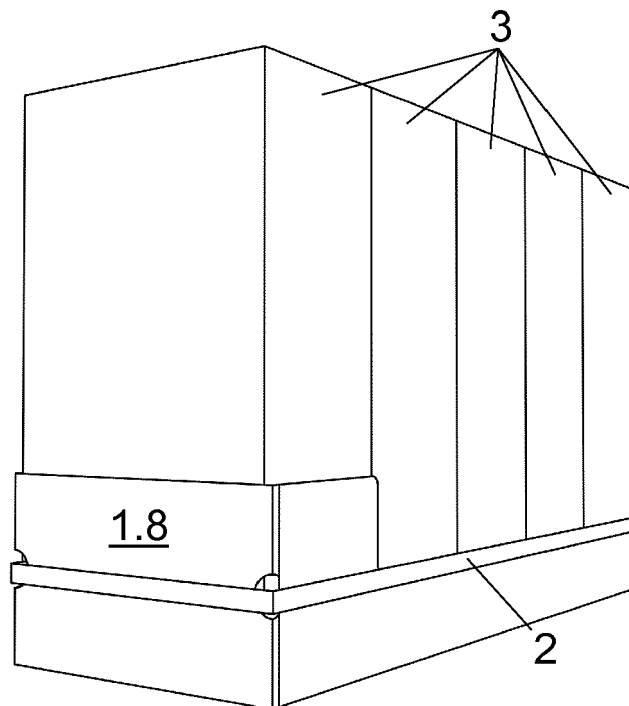


Fig.5

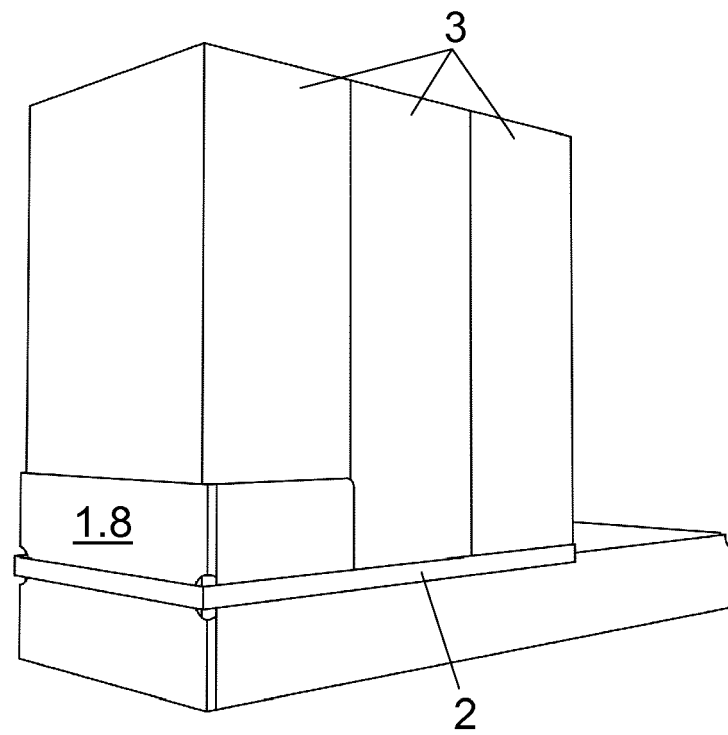


Fig.6



EUROPEAN SEARCH REPORT

Application Number
EP 15 38 2599

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			TECHNICAL FIELDS SEARCHED (IPC)
			B65D
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 6 April 2016	Examiner Derrien, Yannick
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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EPO FORM 1503 03/02 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 15 38 2599

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06-04-2016

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